

#11
NU**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

U.S. Serial No.: 09/717,746
Filing Date: 11/21/2000
Applicants: Herbert M. Dean et al.
Title: CARDIOPROTECTIVE DOSAGE UNIT
Art Unit: 1614
Examiner: Donna A. Jagoe

Paper No. _____

Commissioner for Patents
Washington, D.C. 20231

DECLARATION OF DR. JERRY H. GURWITZ

I, Dr. Jerry H. Gurwitz, hereby declare the following:

1. I am Professor of Medicine, University of Massachusetts Medical School, Executive Director, Meyers Primary Care Institute, the Dr. John Meyers Chair in Primary Care Medicine at the University of Massachusetts Medical School, a Lecturer on Ambulatory Care and Prevention, Harvard Medical School, Chief of the Section for Health Services Research, Division of General Medicine and Primary Care, UMASS-Memorial Healthcare, Staff Physician at Saint Vincent Hospital, and Primary Care Physician, Fallon Clinic, Inc.

2. I have been practicing medicine since 1983 and have specialized in the treatment of the elderly with major research interests in adverse drug events, drug prescribing and utilization patterns, and clinical decision-making in the elderly patient population.

3. I have been a speaker at numerous professional meetings, conventions, institutes, forums, and medical schools. I am a co-author on many medical papers including papers relating to under-utilization of beta-blocker therapy in acute myocardial infarction, use of beta-blocker therapy after acute myocardial infarction, noncompliance with congestive heart failure therapy in the elderly, and the use of aspirin, beta-blockers and lipid lowering medications before recurrent acute myocardial infarction. My curriculum vitae is attached (Exhibit A).

4. Medical care ultimately costs less if successful interventions are done.
5. Numerous studies have shown the benefit of using beta-blockers, of using aspirin and of using lipid-lowering agents in patients who have had heart attacks, anginal symptoms, or are at high risk.
6. In my practice, I typically see elderly patients, many with a history of heart conditions.
7. Individuals with cardiovascular disorders are known to commonly utilize many medications. Older individuals are in the typical age group in which these cardio-preventative medications are required. Older patients are more susceptible to confusing their multiple medications and multiple treatment regimens.
8. Despite the industry's many years of knowledge of the benefits of using beta-blockers, of using platelet inhibitors such as aspirin and of using lipid-lowering agents in patients with established cardiac disease, and of the knowledge of compliance problems related to long-term treatments with multiple medications especially in older patients, the general approach is to educate physicians and patients.
9. Despite my intimate knowledge of adverse drug events, drug prescribing and utilization patterns, and clinical decision-making in the elderly patient population and despite the appreciably higher mortality rates associated with a recurrent acute myocardial infarction than that associated with a first acute myocardial infarction in the United States each year, I have not considered and never personally considered, nor has it ever occurred to me to combine beta-blockers and aspirin into a single dose as described in the above-described application.
10. The single-dose, beta-blocker and platelet inhibitor such as aspirin described in the present application appears to be novel.

Declarant further states that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under

Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 5/29/03

Name: 
Jerry H. Gurwitz, M.D.



CURRICULUM VITAE

Date Prepared: January 15, 2003

Name: JERRY HOWARD GURWITZ
Address: 33 Metcalf Street, Worcester, MA 01609
Date of Birth: July 11, 1956
Place of Birth: Montgomery, Alabama

Education:

1978 A.B. Dartmouth College
1983 M.D. University of Massachusetts Medical School

Postdoctoral Training:

Internships and Residencies:

1983-84 Intern in Medicine, University of Massachusetts Hospital
1984-86 Medical Resident, University of Massachusetts Hospital

Fellowship:

1986-88 Clinical Fellow in Medicine, Division on Aging, Harvard Medical School
1986-88 Faculty Development Program, Division of General Medicine, Harvard Medical School
1986-89 Clinical Fellow in Medicine, Brigham and Women's Hospital
1988-89 Research Fellow in Medicine, Beth Israel Hospital

Licensure and Certification:

1985 Commonwealth of Massachusetts
1986 Diplomate, American Board of Internal Medicine
1988 Diplomate in Geriatric Medicine, American Board of Internal Medicine

Academic Appointments:

1988-1993	Instructor in Medicine, Harvard Medical School
1993-1996	Assistant Professor of Medicine, Harvard Medical School
1996-	Lecturer on Ambulatory Care and Prevention, Harvard Medical School
1996-	Associate Professor of Medicine, University of Massachusetts Medical School
1996-	The Dr. John Meyers Chair in Primary Care Medicine, University of Massachusetts Medical School
1999	Professor of Medicine, University of Massachusetts Medical School

Hospital/Clinical Appointments:

1988-1993	Geriatrician, Hebrew Rehabilitation Center for Aged, Boston
1988-1996	Attending Physician, Brockton/West Roxbury Veterans Administration Medical Center
1989-1996	Associate in Medicine, Beth Israel Hospital, Boston
1989-1996	Associate Physician, Brigham and Women's Hospital
1993-1996	Chief of Geriatric Medicine, Department of Medicine, Brockton Division, Brockton/West Roxbury Veterans Administration Medical Center
1996-	Chief, Section for Health Services Research, Division of General Medicine and Primary Care, UMASS-Memorial Healthcare
1996-	Staff Physician, Saint Vincent Hospital
1996-	Primary Care Physician, Fallon Clinic, Inc.

Other Professional Positions:

1990-1996	Assistant Director, Harvard Geriatric Education Center
1996-	Executive Director, The Meyers Primary Care Institute
1997-	Associate Director for Managed Care, Harvard Upper New England Geriatric Education Center

Awards and Honors:

1987-88	Charles A. Dana Foundation Fellow
1988-91	Merck Foundation Fellow in Geriatric Clinical Pharmacology
1991-96	Clinical Investigator Award, National Institute on Aging
1994	Fellow of the American College of Physicians
1994	Fellow of the American Geriatrics Society
1994	Fellow of the Gerontological Society of America
1996	Leon I. Goldberg Young Investigator Award, American Society for Clinical Pharmacology and Therapeutics

1996	Research Poster Award (Epidemiology), "Atrial Fibrillation in the Long-Term Care Setting," 1996 Annual Meeting of the American Geriatrics Society
1996	NESTOR Visiting Professor of Geriatric Medicine, The Netherlands Programme for Research on Aging
1996	Department of Veterans Affairs Certificate of Appreciation
1996	The Dr. John Meyers Chair in Primary Care Medicine, University of Massachusetts Medical School
1997	First International Visiting Scientist, Baycrest Centre for Geriatric Care, Ontario
1998	Outstanding Primary Care Researcher, University of Massachusetts Medical School Generalist Physician Initiative
1999	The Best of <i>Archives of Internal Medicine</i> 1999 <i>Arch Intern Med</i> 1999;159:561-7.
2000	Society of General Internal Medicine Initial Research Mentorship Award with Sumit Majumdar, MD
2001	William B. Abrams Award in Geriatric Clinical Pharmacology, American Society for Clinical Pharmacology and Therapeutics
2002	Alpha Omega Alpha Honor Medical Society, University of Massachusetts Medical School, Alumnus Member

Major Committee Assignments:

National and Regional:

1994	Committee member, Massachusetts Governor's Conference on Alzheimer's Disease
1995-2005	Expert Advisory Panel on Gerontology, The United States Pharmacopeial Convention (USP)
1996-	National Scientific Advisory Council, American Federation for Aging Research
1996	Oversight Committee for NIH-funded study: "Physical Activity Promotion for CHD Risk Reduction," Harvard Pilgrim Health Care
1996	Grant reviewer, The Physicians' Services Incorporated Foundation, Ontario, Canada
1996	Expert Advisory Panel on Geriatrics, The United States Pharmacopeial Convention (USP) Subcommittee on Botanicals
1996	Reviewer, Institute of Medicine Report: "Health Outcomes for Older People: Questions for the Coming Decade"
1996	Medication Error Reduction Initiative Coalition Member, American Medical Association
1996	Governing Board, The HMO Research Network

1997	Physician Prescribing Practices Expert Panel, Institute for Healthcare Improvement
1997- 2000	Representative of the American Geriatrics Society to the United States Pharmacopeial Convention (USP)
1997	American Heart Association Project on Guidelines for Uniform Reporting of Risk Reduction Outcomes - Section on Beta Blockers Post MI
1997-2001	Agency for Health Care Policy and Research Study Section Member Health Care Quality and Effectiveness Research
1997-1998	Prescribing Practices Collaborative, Institute for Healthcare Improvement, Advisory Group
1998	Reviewer for Robert Wood Johnson Changes in Health Care Financing and Organization Initiative
1999	SCRIPT Technical Expert Panel, Coalition for Quality in Medication Use
1999	American Society for Consultant Pharmacists, Technical Advisory Group, Fleetwood Project
1999	American Federation for Aging Research, Merck/AFAR Scholarship Program in Geriatric Clinical Pharmacology Awards Selection Committee
1999	National Health Care Quality Improvement Program (HCQIP) Initiative to Improve Quality of Care for Atrial Fibrillation Expert Panel
1999	Safety Monitoring Board for NIH-funded study "Aging, Hypertensive Therapy, and Blood Pressure Regulation"
1999	National Heart, Lung, and Blood Institute, Working Group on Adherence to Medical and Lifestyle Interventions
2000	Chair, Scientific Abstract Review Subcommittee, Provider/Organization-Centered Research, Society of General Internal Medicine, 23 rd Annual Meeting
2000	American Society for Consultant Pharmacists Foundation, "Pharmacist-Sensitive Outcomes" Advisory Board
2000	Guest Expert Advisor on Risk Management, FDA Division of Gastrointestinal and Coagulation Drug Products (alosetron)
2000-2005	Representative of the American Geriatrics Society to the United States Pharmacopeia (USP) Convention
2002	Massachusetts Department of Public Health Advisory Panel on Experimental/Investigational Medical and Surgical Procedures
2002	National Committee for Quality Assurance (NCQA) Medication Management Technical Subgroup

University of Massachusetts Medical School:

1996-2000	University of Massachusetts Medical School Admissions Committee
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- 1996- University of Massachusetts Medical School, Robert Wood Johnson Generalist Physician Initiative Directors' Group
- 1997 CME Advisory Committee Task Force, University of Massachusetts Medical Center, Managed Care Strategies and Physician Retraining
- 1998 Member, Search Committee, Department of Medicine Chair
- 1999 Chancellor's Task Force on Clinical and Population-based Research at University of Massachusetts Medical School
- 1999 Ad Hoc Search Committee for Outcomes Researcher, Department of Pediatrics
- 2000 Advisory Committee for the University of Massachusetts Medical School Macy Initiative in Health Communication
- 2000 Member, Search Committee, Department of Medicine Vice Chair for Research
- 2001 University of Massachusetts Medical School Clinical Research Advisory Committee
- 2002 University of Massachusetts Medical School/AAMC/Hartford Foundation Geriatrics Project – Consultant

Hospital:

Brigham and Women's Hospital

1993-1996 Medication Education and Management Committee

Brockton/West Roxbury Veterans Affairs Medical Center

1994-1995 Inpatient Consolidation Committee

Beth Israel Hospital

1988-1994 Transfusion Committee

1989-1992 Pharmacy and Therapeutics Committee

1990-1992 Therapeutic Drug Monitoring Committee

Hebrew Rehabilitation Center for Aged:

1987-1993	Pharmacy and Therapeutics Committee (Chairman)
1988-1993	Patient Care Assessment Committee
1988-1993	Utilization Review Committee
1990-1993	Transfusion Committee (Chairman)

Fallon Healthcare System

1996-	Advisory Team for Senior Health
1998-	Fallon Elder Service Plan Medical Advisory Committee
1999-	Institutional Review Board, Fallon Healthcare System and Saint Vincent Hospital
1999-	Technology Assessment Committee, Fallon Community Health Plan

Memberships, Offices and Committee Assignments in Professional Societies:

1985-	American Geriatrics Society
1988-	Gerontological Society of America
1989-1994	American Society for Clinical Pharmacology and Therapeutics Vice Chairperson, Section on Geriatric Clinical Pharmacology
1991-	American College of Physicians
1994-1997	American Society for Clinical Pharmacology and Therapeutics Chairperson, Section on Geriatric Clinical Pharmacology
1994-1997	Committee on Coordination of Scientific Sections, American Society for Clinical Pharmacology and Therapeutics
1995-1997	Board of Directors, American Society for Clinical Pharmacology and Therapeutics
1995-	International Society for Pharmacoepidemiology
1996-	Association for Health Services Research
1996-	Society of General Internal Medicine
1996-1997	Nominating Committee, American Society for Clinical Pharmacology and Therapeutics

Editorial Boards:

1992	Editorial Advisory Board, <i>AARP Prescription Drug Handbook</i>
1994-1999	Editorial Board, <i>Journal of the American Geriatrics Society</i>
1995	Deputy Editor, <i>Journal of Gerontology: MEDICAL SCIENCES</i>
1995-1999	Editorial Board, <i>Journal of Gerontology: MEDICAL SCIENCES</i>

Major Research Interests:

1. Adverse drug events
2. Drug prescribing and utilization patterns
3. Clinical decision-making in the elderly patient population

Research Funding Information:

Past:

1988-1991	American Federation for Aging Research	PI	<i>NSAID-Associated Azotemia in the Elderly</i>
1989-1991	Ocean Spray Cranberries, Inc.	Co-investigator	<i>Prevention of Urinary Tract Infections in the Elderly</i>
1990-1991	NIH/Harvard GRTC (Pilot Project Grant)	PI	<i>Thiazide Diuretic Therapy and Initiation of Treatment for Diabetes Mellitus</i>
1991-1992	Geriatric Drug Therapy Institute	PI	<i>Constipation and Laxative Use in the Institutionalized Elderly</i>
1991-1992	NIH/RO1	Co-investigator	<i>Drug-Induced Parkinsonian Symptoms in the Elderly</i>
1992-1993	Kabi Pharmacia	Co-investigator	<i>The Cost-Effectiveness of Thrombolytic Therapy</i>
1992-1993	The Medical Foundation/Charles H. Farnsworth Trust	PI	<i>Compliance with Glaucoma Therapy in the Elderly</i>
1994-1995	Dupont Pharma	PI	<i>Clinical Decision-Making in the Use of Anticoagulant Therapy in Elderly Patients with Atrial Fibrillation</i>
1991-1996	NIH/KO8	PI	<i>Drug-Induced Illness in the Elderly: NSAIDs as a Model</i>
1992-1996	NIH/RO1	Co-investigator	<i>Improving Quality of Breast Cancer Care in Elderly Women</i>
1992-1996	NIH/RO1	Co-investigator	<i>Improving Compliance with Acute MI Practice Guidelines</i>
1996-1998	NIH/RO1	PI	<i>Prevention of Adverse Drug Events in the Nursing Home Setting</i>

1996-1998	NIH/RO1	Co-PI	<i>Risky Geriatric Benzodiazepine Use: Predictors and Trends</i>
1996-1998	NIH/RO1	Co-investigator	<i>Medicare Capitation and Quality of Care for Acute MI</i>
1996-1998	Dupont Pharma	PI	<i>Improving the Quality of Anticoagulation Care in the Long-Term Care Setting</i>
1997-2000	Health Resources and Services Administration	PI	<i>Geriatric Education Centers Training Program</i> (subcontract with Harvard Division on Aging)
1997-1998	Healey Endowment Fund	PI	<i>Medical Educators in the Managed Care Setting</i>
1997-1998	Merck, Inc.	PI	<i>Epidemiologic Study of Gastric and Duodenal Safety in Patients on Alendronate (subcontract with Harvard Pilgrim Health Care)</i>
1998-2000	Robert Wood Johnson Foundation	Co-investigator	<i>Impact of Physician Compensation Mechanisms on the Process of Care</i>
1998-1999	Solvay Pharmaceuticals, Inc.	PI	<i>Comprehensive Evaluation of a Premarin-to-Estratab Switch in a Managed Care Setting</i>
1998-2000	Partnership for Quality Education	Co-PI	<i>Managed Care of the Elderly</i>
1998-1999	American Society of Consultant Pharmacists Research and Education Foundation	PI	<i>Drug Benefit Plans for the Elderly under Managed Care</i>

Current

1996-2000	NIH/RO1	Co-investigator	<i>Adjuvant Tamoxifen Therapy in Old Age</i>
1998-2002	National Cancer Institute HMO Research Network/Cancer Research Network	Co-Investigator	

1997-2002	Food and Drug Administration	PI	<i>Consequences of Outpatient and Inpatient Drug Exposures</i> (Subcontract with Harvard Pilgrim Health Care)
1998-2000	National Institute on Aging	PI	<i>Adverse Drug Events in the Ambulatory Geriatric Setting</i>
2000-2003	Agency for Healthcare Research and Quality	PI	<i>Reduction of Adverse Drug Events in the Nursing Home</i>
2000-2003	Agency for Healthcare Research and Policy	Co-Investigator	<i>Centers for Education and Research on Therapeutics</i>
2000-2004	National Cancer Institute	Co-Investigator	<i>Breast Cancer Treatment Outcomes in Older Women</i>
2000-2004	Health Resources and Services Administration	Co-Investigator	<i>Geriatric Education Centers Training Programs</i>
2000-2003	Health Resources and Services Administration	PI	<i>Academic Administrative Units in Primary Care</i>

Principal Clinical and Hospital Services Responsibilities:

1988-1993	Staff Geriatrician, Hebrew Rehabilitation Center for Aged, Roslindale, MA
1989-1991	Attending Physician, Geriatric Consultation Service, Beth Israel Hospital, Boston, MA
1988-1996	Attending Physician, Geriatric Evaluation and Management Unit, West Roxbury Veterans Administration Medical Center, West Roxbury, MA
1989-1996	Attending Physician, Geriatric Outpatient Clinic, Brigham and Women's Hospital
1990-1996	Attending Physician, Medical Service, Brockton/West Roxbury Veterans Administration Medical Center, West Roxbury, MA
1992-1996	Attending Physician, Geriatric Consultation Service, Brigham and Women's Hospital
1993-1996	Attending Physician, Geriatrics and Extended Care Service, Brockton Division, Brockton/West Roxbury VAMC
1994-1996	Attending Physician, Medical Service, Brigham and Women's Hospital

1996- Teaching Attending Physician, University of Massachusetts Medical Center

Major Administrative Responsibilities:

1990-1996 Assistant Director, Harvard Geriatric Education Center
 1993-1996 Chief of Geriatric Medicine, Department of Medicine, Brockton Division, Brockton/West Roxbury Veterans Administration Medical Center
 1996- Executive Director, The Meyers Primary Care Institute
 1996- Section Chief, Section for Health Services Research, Department of Medicine, Division of General Medicine, Primary Care, and Geriatrics, University of Massachusetts Medical School

Self report of teaching:

Local Contributions:

Harvard University: Harvard Medical School and Harvard School of Public Health

1988-1996 Introduction to Clinical Medicine
 Introduction to Geriatrics and Long-Term Care
 4-10 students
 3 hours/year

1991 Department of Continuing Education
 Primary Care Internal Medicine: Principles and Practices
 Lecturer on Geriatric Clinical Pharmacology

1989-1992 Department of Continuing Education
 Geriatric Medicine Course
 Lecturer and Workshop Leader on Geriatric Clinical Pharmacology

1992-1993 Department of Continuing Education
 New Pathways in General Medical Education
 Workshop Leader

1991-1996 Pharmacology Module (New Pathway)
 Tutorial Leader
 9-10 students
 4 weeks/year (25-30 hours)

- 1994-1996 Pain: Exploring Issues from Sensory Receptors to
Societal Concerns (ABS Elective SM 512.0)
5-6 students
2 hours/year as Lecturer
- 1997, 1998, Harvard School of Public Health Summer
1999, 2001 Epidemiology Program
5 fellows
2 hours as Workshop Leader

Beth Israel Hospital

- 1989-1991 Geriatric Medicine Consultation Service
Consult Attending
1 geriatric medicine fellow
1 month/year
- 1988-1996 Gerontology Division Seminars
Presenter
1-2 hours/year
- 1992 Department of Anesthesia and Critical Care
Grand Rounds
"Pharmacological Issues for the Elderly"

Hebrew Rehabilitation Center for Aged

- 1988-1993 Long-Term Care Clinical Rotation
Attending
1 geriatric medicine fellow; 0-1 residents; 0-1
medical students
3-4 months/year

Brockton/West Roxbury VAMC

- 1988-1996 Geriatric Evaluation and Management Unit Clinical
Rotation
Attending
1 geriatric medicine fellow; 1 medical resident
1 month/year
- 1990-1996 Medical Service
Attending

1 resident; 2 interns; 2 medical students
1 month/year

1993-1996 Medical Resident Noon Conference Series
Presenter
4-5 hours/year

Brigham and Women's Hospital

1989-1996 Geriatric Outpatient Evaluation Clinic
Attending
1 geriatric medicine fellow
2 afternoons/month

1992-1996 Geriatric Medicine Consultation Service
Attending
1 geriatric medicine fellow
1 month/year

1994-1996 Medical Service
Attending
1 resident; 2 interns; 1-2 medical students; 2
pharmacy interns
1 month/year

1995-1996 Brigham Internal Medicine Associates Residents'
Practice
Geriatric Medicine Attending
4-5 interns and residents
12 hours/year

University of Massachusetts Medical School

1996- Evidence Based Medicine Workshop (Department of
Family Practice)
Critical Appraisal of Articles Related to Diagnosis
50 residents
3 hours

1997- Lecturer, Nurse Practitioner Pharmacology Course
11 students
2 hours

1997-2001 Medical Service
Teaching Attending

1 resident; 2 interns; 1 medical student
1 month

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| 2001, 2002 | Instructor, Introduction to Grant Writing Course,
University of Massachusetts Medical School
Department of Faculty Administration |
| 2001 | Interclerkship on Geriatric Medicine for 3 rd Year
Students
Lecturer
20 students |
| 2002 | Geriatrics Miniselective for 4 th Year Students
Lecturer
5 students |

**Saint Vincent Hospital/
Worcester Medical Center**

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| 2002 | Medical Service
Teaching Attending
1 resident, 1 intern, 1 medical student
1 month |
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Leadership Roles

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| 1997-2002 | Interclerkship on Managed Care for 3 rd year students
Course Co-Director
115 medical students
16 hours |
| 1997-2001 | Practicing and Teaching Evidence-Based Medicine
(Sponsored by RWJ Generalist Physician Initiative)
Course Co-Director
16 community-based UMMS faculty
6 hours |
| 1996-2002 | Residency Curriculum on Managed Care
(Sponsored by RWJ Generalist Physician Initiative) |
| 2002 | Practicing and Teaching Evidence-Based Medicine
(Sponsored by RWJ Generalist Physician Initiative)
Course Co-Director
24 residents and fellows |

Preparation of Teaching Materials/Curriculum Development

- 1992 Cardiovascular Pharmacology Case Study- New Pathway
Principles of Pharmacology Course (Harvard Medical School - 1)
"A Broken Heart"
- 1993 "H2 Blockers: Too Much of a Good Thing?"
Brigham and Women's Hospital
Medication Education and Management Program

Selected Regional, National, and International Contributions:

Invited Presentations

- 1990 Symposium Speaker, "Old age - is it a risk factor for adverse drug reactions?" IVth World Conference on Clinical Pharmacology and Therapeutics, Heidelberg, Germany
- 1990 Speaker, Geriatrics Board Review Course, American Geriatrics Society and the American College of Physicians, New Orleans, Louisiana, "Principles of Geriatric Pharmacology," "Nursing Home Pharmacology," "Iatrogenesis"
- 1990 Symposium Speaker, "Unique Aspects of Prescribing for the Elderly," Office of the Inspector General, Office of Evaluation and Inspections, Washington, D.C.
- 1991 Panelist, Research Priorities for Studying the OBRA Drug Regulations, Health Care Financing Administration, Washington, D.C.
- 1991 Speaker, American College of Physicians Annual Meeting, New Orleans, Louisiana, "Pharmacoepidemiology- Understanding and Using Epidemiological Data to Advance Therapeutic Skills"
- 1992 Symposium Speaker, "Explaining the risks of nonsteroidal anti-inflammatory drug therapy in the elderly: pharmacokinetics, pharmacodynamics, aging physiology, or comorbidity?" Vth World Conference on Clinical Pharmacology and Therapeutics, Yokohama, Japan.

- 1992 Testimony to the House Small Business Subcommittee on Regulation, Business Opportunities, and Energy, "Drug Product Labeling and the Appropriate Use of Prescription and OTC Drugs in the Elderly," Washington, D.C. (April 28, 1992)
- 1992 Speaker, "Food and Drug Administration Guideline for the Study of Drugs in Elderly Patients," American College of Cardiology Workshop- Inclusion of Elderly Individuals in Clinical Trials: Cardiovascular Disease and Cardiovascular Therapy as a Model, Bethesda, Maryland.
- 1992 Continuing Medical Education Course Speaker, "Drug Therapy in the Elderly," American Geriatrics Society and the American College of Physicians, San Francisco, CA
- 1992 Seminar Speaker, Brown University Center for Gerontology and Health Care Research, "Clinical, Epidemiologic, and Policy Issues Regarding Medication Use in the Long-Term Care Setting"
- 1994 Speaker, Boston City Hospital Primary Care Training Program Lecture Series, "Prescribing to the Elderly"
- 1994 Speaker, Veterans Administration National Training Program- Medication Management in the Elderly, "NSAIDs: A Model for Studying Drug Risk in the Elderly"
- 1994 Speaker, Temple University School of Medicine Geriatric Board Review Course, "Principles of Pharmacology in the Elderly"
- 1994 Speaker, Clinical Pharmacology Division, Indiana University School of Medicine, "Issues in Geriatric Clinical Pharmacology"
- 1994 Panelist, National Institute on Aging/National Cancer Institute/Agency for Health Care Policy and Research Working Group on Pharmacology in Aging and Cancer
- 1995 Meet the Professor, 1995 Annual Meeting of the American Geriatrics Society, "Geriatric Clinical Pharmacology"

- 1995 Medical Grand Rounds, University of Massachusetts Medical Center, "Optimal Drug Therapy in the Elderly"
- 1995 Medical Grand Rounds, Dartmouth-Hitchcock Medical Center, "Geriatric Clinical Pharmacology for Internists"
- 1995 Seminar Speaker, Department of Health Care Policy, Harvard Medical School, "A Very Large Acute Myocardial Infarction Database: Strengths and Weaknesses of Large Numbers"
- 1996 Invited Speaker, "Reduction of Bacteriuria and Pyuria following Ingestion of Cranberry Juice" 1996 Annual Meeting of the International Life Sciences Institute, Cancun, Mexico.
- 1996 Pharmacoepidemiology Seminary Series, Harvard School of Public Health, Department of Epidemiology, "Clinical Decision-Making in the Use of Warfarin in the Frail Elderly"
- 1996 NESTOR Visiting Professor of Geriatric Medicine, The Netherlands Programme for Research on Aging, "Introduction to Geriatric Clinical Pharmacology," University Hospital Nijmegen, Nijmegen, The Netherlands
- 1996 Invited Speaker, "Trends in Thrombolytic Use in the Elderly: Findings from the National Registry of Myocardial Infarction," Annual Drug Information Association Meeting on Statistical Issues in the Pharmaceutical Industry.
- 1996 Medical Grand Rounds, Brockton/West Roxbury VA Medical Center, "Clinical Decision-Making: Use of Warfarin in the Frail Elderly"
- 1996 Invited Speaker, "Drug Therapy in the Elderly", Successful Aging Course for visiting Japanese delegation, Harvard Geriatric Education Center
- 1996 Invited Speaker, "Polypharmacy in the Nursing Home", Massachusetts Extended Care Federation
- 1996 Pediatric Grand Rounds, University of Massachusetts Medical Center, "The Truth About Evidence-Based Medicine"

- 1996 Medical Grand Rounds, COLUMBIA Metrowest Medical Center, "Drug Therapy in the Elderly"
- 1996 Family Practice Grand Rounds, The Memorial Hospital, "Optimal Drug Therapy in the Elderly"
- 1996 Medical Grand Rounds, Champlain Valley Physicians Hospital Medical Center, Plattsburgh, NY, "Optimal Drug Therapy in the Elderly"
- 1997 Medical Grand Rounds, The Memorial Hospital, "Optimal Drug Therapy in the Elderly"
- 1997 Keynote Speaker, Health Care Financing Administration Office of Managed Care, Medications Quality Improvement Project Meeting
- 1997 Annual Meeting of the American Geriatrics Society and the American Federation for Aging Research, Symposium Speaker, "Is Oral Anticoagulation Risky? Evaluating the Reality."
- 1997 First Annual Symposium of University of Massachusetts Medical Center Heart Institute (Contemporary Strategies in the Treatment of Ischemic Heart Disease), Speaker, "Cardiac Care in an Aging Population"
- 1997 Annual Meeting of the Academy of Managed Care Pharmacy, Speaker, "Risk Management Issues in Pharmaceutical Care for the Elderly"
- 1997 Summer Institute on Aging Research sponsored by the National Institute on Aging, Lecturer, "Introduction to Geriatric Pharmacoepidemiology"
- 1997 University of Massachusetts Medical Center Second Annual Symposium on Thrombosis, Thrombolysis, and Anticoagulation for the Clinician, "Managing Anticoagulation in the Elderly"
- 1997 Boston University School of Medicine Epidemiology of Aging Course, Lecturer, "Pharmacoepidemiology in the Elderly"
- 1998 Boston University School of Medicine

Epidemiology of Aging Course, Lecturer,
 “Pharmacoepidemiology in the Elderly”

- 1998 Elder Care 1998, Plenary Speaker, “Medication Issues in the Elderly,” Worcester, MA
- 1998 Annual Meeting of the American Geriatrics Society, Update on Long-Term Care: “The Prescribing Cascade”
- 1998 Northeast Group on Educational Affairs 1998 Regional Meeting, “Teaching and Learning in the Era of Evidence-Based Medicine”
- 1998 Quality of Care Seminar Series, Harvard School of Public Health, “The Quality of Anticoagulation Care in the Frail Elderly”
- 1998 Drug Information Association Annual Meeting, Boston, MA, “An Update on Drugs in the Elderly – The Therapeutic Cascade”
- 1998 University of Massachusetts Third Annual Thrombosis, Thrombolysis and Anticoagulation for the Clinician Symposium; “The Safety and Efficacy of Anticoagulants in the Elderly”
- 1998 Boston University Center for Excellence in Geriatrics Boston, MA, “Polypharmacy”
- 1998 Harvard Division on Aging Grand Rounds, “Anticoagulation Care in the Elderly”
- 1998 Blue Cross Blue Shield Association Medicaid and Medicare Best Practices Forum, “Polypharmacy Management in Medicare Patients”
- 1999 Boston University School of Medicine Epidemiology of Aging Course, Lecturer, “Pharmacoepidemiology in the Elderly”
- 1999 Workshop, Mock Grants Review Study Section, Sponsored by the Agency for Health Care Policy and Research, HMO Research Network Meeting

- 1999 Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics, "Strategies to Detect and Reduce Adverse Drug Events in the Nursing Home"
- 1999 Plenary Talk: "Considerations in Designing an 'Ideal' Medication Use System" at National Interdisciplinary Conference Sponsored by the Joint Commission of Pharmacy Practitioners – Re-Engineering the Medication Use System
- 1999 Harvard Medical School Department of Continuing Education – Topics in Long-Term Care, "Medication Use In the Nursing Home"
- 1999 Berkshire Medical Center Medical Grand Rounds, "Drug Prescribing in the Elderly"
- 1999 UMASS Memorial Health Care, Department of Medicine Grand Rounds, "Thrombolytic Therapy in the Elderly – A Dilemma in Therapeutic Decision-Making"
- 1999 Saint Vincent Hospital, Department of Medicine Grand Rounds, "Thrombolytic Therapy in the Elderly – A Dilemma In Therapeutic Decision-Making"
- 1999 National PACE Association Annual Conference, "Optimal Drug Therapy for the Elderly"
- 1999 University of Connecticut Center on Aging Geriatrics Grand Rounds, "Drug Therapy in the Elderly"
- 2000 Harvard Medical School Division on Aging Managed Care for the Elderly Conference, "Medication Issues"
- 2000 American Heart Association Scientific Conference on Existing Databases: Do they hold the answers to clinical questions in geriatric cardiovascular disease and stroke? "Acute Myocardial Infarction, Thrombolytic Therapy"
- 2000 Worcester Medical Center Grand Rounds, "To Err is Human: Preventing Medication Errors and Adverse Drug Events in the Elderly"

- 2000 8th Annual Symposium on Geriatric Research and Health Care Policy, Hebrew Rehabilitation Center for Aged, "Making Drug Therapy Safer for the Elderly"
- 2000 Fifth Annual UMASS Thrombosis, Thrombolysis, and Anticoagulation for the Clinician Symposium, "Warfarin"
- 2000 Hospital of Saint Raphael, Medical Grand Rounds, "Optimal Drug Therapy in the Elderly"
- 2001 University of Massachusetts and UMASS Memorial Medical Grand Rounds, "To Err is Human, Making Medication Use Safer for the Elderly"
- 2001 Geriatric Educational National Retreat: Integrating Geriatrics into Neurology and Psychiatry, Sponsored by the American Geriatrics Society and the John A. Hartford Foundation, "Geriatric Clinical Pharmacology"
- 2001 Centers for Education and Research on Therapeutics, University of North Carolina, "Improving Communication of Drug Risk Information to Prevent Patient Injury"
- 2001 National Council on Patient Information and Education (NCPPIE), 13th National Conference, Bethesda, MD "Promoting Safe Medication Use in Long-Term Care Settings"
- 2001 18th Annual Peter Lamy Conference – Building Bridges in Drug Therapy and Aging, University of Maryland School of Pharmacy, Keynote Speaker, "To Err is Human: Making Medication Use Safer for Elderly Patients"
- 2001 54th Annual Scientific Meeting of the Gerontological Society of America. Symposium Discussant: "Improving Medication Use in Home-Health and other Frail Community-Dwelling Elderly."
- 2002 Visiting Lecturer, Georgetown University Medical School, Clinical Pharmacology 45h Year Course, "Drug Therapy in the Elderly."
- 2002 Harvard Medical School Division on Aging Geriatric Grand Rounds, "Improving the Safety of Medication Use in the Elderly".

- 2002 Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics, "Special Populations and Pharmacotherapy"
- 2002 Institute of Medicine Workshop, "Role of Providers in the Clinical Research Enterprise"

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